ROCKY FLATS PLANT EMD OPERATING PROCEDURES MANUAL **VOLUME III: GEOTECHNICAL** Manual No.:

5-21000-OPS-GT

Procedure No.: Table of Contents, Rev 60 LS

Page:

1 of 3

Effective Date:

06/01/94

Organization:

Environmental Management

THIS IS ONE VOLUME OF A SIX VOLUME SET WHICH INCLUDES:

VOLUME I: FIELD OPERATIONS (FO) VOLUME II: GROUNDWATER (GW) VOLUME III: GEOTECHNICAL (GT) VOLUME IV: SURFACE WATER (SW) VOLUME V: ECOLOGY (EE) **VOLUME VI: AIR (AP)**



TABLE OF CONTENTS FOR VOLUME III: GEOTECHNICAL

Procedure <u>No.</u>	<u>Title</u>	Rev. No.	Effective Date
GT.01	Logging Alluvial and Bedrock Material	2	05/12/92
DCN 93.03 DCN 93.04 DCN 93.06 •94-DMR-001007	Core Log QC Change Lithologic Descriptions SVE Core Description LIMITED SCOPE Section GT.01 Text and Form GT.1A Modification	2 2 2 2	06/18/93 07/15/93 06/20/93
GT.02	Drilling and Sampling Using Hollow Stem Auger Techniques	2	05/12/92
DCN 92.04	Prevention of Down Hole Contamination EXTENDED	2	7/28/93
93-DMR-000955	Form GT.2A Modification	2	01/10/94
93-DMR-000960	QC Sample Collection Modification	2	01/10/94
94-DMR-000382	Approval Process and Sampling Collection Modification	2	03/28/94
94-DMR-000405 •94-DMR-000995	Sample Liner Taping Changes LIMITED SCOPE	2	03/28/94
·	Section GT.02 Text Modification	2	06/01/94
GT.03	Isolating Bedrock from Alluvium with Grouted Surface Casing	2	05/12/92
93-DMR-000956	Form GT.3A Modification	2	01/10/94
94-DMR-000418	Advanced Notification to the State of Colorado	2	04/22/94



ROCKY FLATS PLANT EMD OPERATING PROCEDURES MANUAL VOLUME III: GEOTECHNICAL Manual No.:

5-21000-OPS-GT

Procedure No.: Table of Contents, Rev 60 LS

Page:

2 of 3

Effective Date:

06/01/94

Organization:

Environmental Management

Procedure <u>No.</u>	Title	Rev. <u>No.</u>	Effective <u>Date</u>
GT.04	Rotary Drilling and Rock Coring	2	05/12/92
93-DMR-000957 94-DMR-000419 94-DMR-000935	FORM GT.4A Modification Advanced Notification to the State of Colorado Procedure Modification to Allow Sonic Drilling	2 2	01/10/94 04/22/94
	Technique Usage	2	06/01/94
GT.05	Plugging and Abandonment of Boreholes	2	05/12/92
93-DMR-000961	Form GT.5A Modification	2.	01/10/94
GT.06	Monitoring Wells and Piezometer Installation	2	05/12/92
DCN 93.10 DCN 93.11 DCN 93.12 DCN 93.13	SVE Bentonite Chips SVE Well Specifications Riser Installation Cancel DCN 93.11, Item #1 for OU 2 SVE Study	2 · 2 2 2	08/20/93 08/20/93 09/02/93 10/06/93
DCN 93.14 94-DMR-000801	Revision of Figure GT.6-3 CO Regulatory Statute Reference Citations and Text Modification LIMITED SCOPE	2	10/06/93 06/01/94
•94-DMR-000994	Section GT.06 Text Modification	2	06/01/94
GT.07	Logging and Sampling of Test Pits and Trenches	2	05/12/92
94-DMR-000276	Section GT.07 and form Modifications	2	02/28/94
GT.08	4-E42-ER-OPS-GT.08 Surface Soil Sampling	3	01/25/94
94-DMR-000133 94-DMR-000229	Sampling Modifications Editorial Correction GT.08	3 3	02/04/94 03/14/94
GT.09	Soil Gas Sampling and Field Analysis	2	05/12/92
94-DMR-000431	Calibration Occurrence Clarification	2	04/11/94
GT.10	Borehole Clearing	2	05/12/92

ROCKY FLATS PLANT EMD OPERATING PROCEDURES MANUAL VOLUME III: GEOTECHNICAL Manual No.:

5-21000-OPS-GT

Procedure No.: Table of Contents, Rev 60 LS 3 of 3

Effective Date:

06/01/94

Organization:

Environmental Management

Procedure <u>No.</u>	<u>Title</u>	Rev. <u>No.</u>	Effective Date
GT.11	Plugging and Abandonment of Wells	2	05/12/92
93-DMR-000962 94-DMR-000561	Form GT.11A Modification Section 11 Modification	2 2	01/10/94 05/06/94
GT.15	Geophysical Borehole Logging	2	05/12/92
GT.17	Land Surveying	2	05/12/92
DCN 93.01 94-DMR-000560	Land Surveying Clarification Text Modification	2 2	09/02/93 05/06/94
GT.18	Surface Geophysical Surveys	2	05/12/92
DCN 93.02	5.5 Time Domain Electromagnetic Metal Detection	2	11/22/93
GT.19	Field Gas Chromatographs	2	05/12/92
GT.20	Procedures for Soil Interstitial Water Sampling and Sampler Installation	2	05/12/92
94-DMR-000297	Section GT.20 and form Modifications	2	02/28/94
GT.21	Cone Penetrometer Testing	1	05/12/92
GT.24	Approval Process for Construction Activities on or Near Individual Hazardous Substance Sites (IHSSs)	0	05/12/92

DOCUMENT MODIFICATION REQUEST (DMR)

Page 1 of 2

				ng Instructions. cept Signatures)		1. Date 5/6/94		25. DMR. No.	94-DMR	-000994	Ii 5ke
2. Existing Document Number/Revision 5-21000-OPS-GT.6/Rev.2			New Document Number or Document Number if it is to be changed with this Revision N/A								
4. Originator's Name/Phone/Page/Location D. Yashan/3692/D1388/7893A			5. Document Title Monitoring Wells and Piezometer Installation								
L			3A	La B V. Ud.	.: T. (CT.)		ells and Pie	ezometer ins	Ranation		
6. Docum		Procedure			ation Type (Check only or ion Intent Change		nge 🗌 Ed	litorial Cori	rection 🗆 C	ancellation	
8. Item	9. Page	10. Step		<u> </u>		11. Proposed Modificat	tions				
	 		LIMITED	COPE: This DM	R is limited to the Dar	n Upgrades Project.					
1 2	3B of 18 4-5 of	Section 6.0 Section	and inclinor Delete bulle	neters". ts 2, 3, 4, 5, and 6.	nd open-pipe piezomet Change bullet 9 to '						ieters,
IL	9A of 18		Add Section styrene (AB extend to ap glued and ri in the casing installation a casing will a direction of Add Section bottom of the mixed in a surrounding bottom of the feet below a fication, EJO#.	sentence of 1st para ipment Decontamina 3.3.1.6, Inclinome S) unless another ty proximately 2 feet a veted in place. The g string will be glue and to prevent inflor allow for proper pla movement and one 2.3.1.7, Cement 6 we casing to ground owered mechanical material. Grout we accasing or with a ground surface.	agraph to read: "Downation) upon completion ter Casing, as follows pe of casing is required bove the ground surface top of the casing will d and riveted and cover of cement grout. Occement of the inclinor set of two grooves are Grout, as follows: "T surface. The grout will be placed outside of grout cap/plug assemble relevance of this SO	"Inclinometer casied by the FSP or proace. The bottom of a be fitted with a slip ered with duct tape in rientation of the inclineter probes, i.e., or e perpendicular to the annular space bet ill consist of Portland be proportioned so f the inclinometer cally that allows for pure the space of the inclinometer cally that allows for pure the space of the inclinometer cally that allows for pure the space of the inclinometer cally that allows for pure the space of the inclinometer cally that allows for pure the space of the inclinometer cally that allows for pure the space of the inclinometer cally that allows for pure the space of the inclinometer cally that allows for pure the space of the inclinometer cally that allows for pure the space of the inclinometer calls the space of	area. ing will co oject-specif the casing p-in cap wi in order to linometer c ne set of tw ne anticipat tween the c nd cement a o that its si asing using tmping of t	nsist of new fic workplan will be fitte hich can be support low easing will b wo grooves ded direction casing and b and high-sol trength is ap a side disch grout throug	r, flush-joint The inclined with a slip easily remover sections of the such that the sections of movement or the such that the inclined province of the inclined the inclined province of the inclin	acrylonitriles but ometer casing wi- in cap that will red by hand. All of casing during the grooves inside to the anticipated at. be grouted from the bentonite gro the same as the pipe located at the ometer approximate	tadiene ill be l joints e the the the ut
If modifie	nation is for	a new procedure	or a revision, list	oncurring disciplines in Blo	ock 13, and enter N/A in Bloc	is 14 and 15. If modification	n is for any typ	e of change or a	cancellation, org	anizations are listed in	Block 13.
then Conc		· -	ock 14, and dates in	Block 15.						15. Date (if applicable	e)
SME	uzation	Rob Smith	-///	H & H	/					724/5	
EQS		Mark Brook	RP //	John Al	<u> </u>					5-24-G4	<i>Z</i>
		I I I I I I I I I I I I I I I I I I I	(5)////	6 Fronti	<u> </u>					1 1 27 - 17	
 		┼┈┈┈									
		 		<u></u>							
										ļ	
 		 								ļ	
16. Oriei	nator's Sune	rvisor (print/sign/	(date)								
S. Mars	•	AC 3	coun for	J.A. Mar	wall						
		none/Page/Location	m /	<u> </u>	18. Cost Center	19. Charge Number ENV-GT		20. Requested C 5/23/94	Completion Date	21. Effective Date	Jon.
22. Acce	lerated Revis	sw?	23. ORC Review						_	- ree	
<u> </u>	□ No 🖪		1	Not Required; This No	onintent Change is being p	processed as an Intent Cl	hange to exp	edite the DM	R process.		
24. Respo		ager (print, sign,	/ <		K C. 1160 01	hill	5	124/40			
L		+ < 1 min	、キ・ハ	INGEL ,	1 charles	Jrust -		REVIE	WED FOR (CLASSIFICATIO	N/UCN
		٧		1	/	111411755	BY		IA		
			000	JMENT CLASSIF	ICATION REVIEW	WAIVER	DATE	N	IA		
			FIR	R.B. HORFMAN	CLASSIFICATION	UFFICE				•	
9300075	2 DAGE			11 112	11, 1991						

93D00753.DMR

Refer to 1-A01-PPG-001 for Processing Instructions.

Print or Type All Information (Except Signatures)

25. DMR. No. 94-DMR- 000994

	<u> </u>	
2. or 3. Document Number/Revision 5-21000-OPS, GT 2. Rev. 2		
		Monitoring Wells and Piezometer Installation
8. Item 9. Pa	ge 10. Step	11. Proposed Modifications
6 15D of 18	Section 6.3.2.4	Add Section 6.3.2.4, Inclinometer Features, as follows: "A protective steel casing with hinged and locking cap and appropriate dimensions will be installed over the inclinometer casing at such a time as to maximize total productivity and minimize the possibility of damage to the casing. The protective casing will have the inclinometer designation welded on the side. The bottom of the casing will be embedded 2 to 3 feet below the ground surface in concrete. The annulus between the inclinometer casing and the protective casing will be filled with concrete to a minimum of 12 inches above the ground surface, and a 1/4-inch diameter hole will be drilled in the protective casing just above the concrete surface to allow for drainage. At the same time the protective steel casing is concreted in place, an external concrete collar approximately 3 foot square will be placed around the protective casing at the ground surface. The collar will be graded to slope away from the casing in all directions, and will have the inclinometer designation inscribed in it before the concrete sets. If traffic or vegetation conditions warrant extra protection, four 3-inch-diameter steel posts will be installed radially from the inclinometer casing at a distance of approximately 4 feet. The posts will be filled with sand or concrete and embedded in concrete 3 feet below ground surface with a minimum of 3 feet sticking up above ground surface. If the post is filled with sand, the top 3 to 6 inches will be filled with concrete to prohibit water from entering the post."
7 16-1 of 18		Change first three sentences of the 2nd paragraph to read as follows: "The installation of piezometers and inclinometers will be documented on appropriate report forms. As a minimum, the following information, if applicable, will be documented on these forms."

12. Justification (Reason for Modification, EJO#, TP#, etc.)

All changes, additions, and deletions are necessary to provide relevance of this SOP to geotechnical drilling, piezometer installation, and inclinometer installation.

EG&G ROCKY FLATS PLANT EMD MANUAL OPERATION SOP		Manual; Procedure No.: Page:	5-21000-OPS GT.6, Rev. 2 1A of 18
Category 2		Effective Date: Organization:	06/01/94 Environmental Management
LIST OF FIGURES			
FIGURE GT.6-1		DIAGRAM OF ALLUVIAL	
FIGURE GT.6-2		DIAGRAM OF BEDROCK	
FIGURE GT.6-3		DIAGRAM OF WELL FEA	
	OCTIDIVE TATO	beloided of mess.	
1100KB 01.03	GROUND SUP	RFACE	15A

LIST OF EFFECTIVE PAGES

Pages	Effective Date	Change Number
1-5	06/01/94	94-DMR-000801
3B-5	06/01/94	94-DMR-000994
7-18	06/01/94	94-DMR-000801
7	05/11/93	DCN 93.09
9	09/23/93	DCN 93.06
9A	06/01/94	94-DMR-000994
10	03/17/93	DCN 93.07
13	02/10/93	DCN 93.04
15	02/10/93	DCN 93.04
15	02/10/93	DCN 93.05
15	09/02/93	DCN 93.12
15A	10/01/93	DCN 93.14
15B	09/02/93	DCN 93.12
15C	10/01/93	DCN 93.14
15C	09/02/93	DCN 93.12
15C	02/10/93	DCN 93.05
15D-16	01/29/93	DCN 93.02
15D-17	06/01/94	94-DMR-000994
Form GT.6A	06/01/94	94-DMR-000801
Form GT.6B	06/01/94	94-DMR-000801

TOTAL NUMBER OF PAGES: 28 (including forms)

EG&G ROCKY FLATS PLANT	Manual:	5-21000-OPS
EMD MANUAL OPERATION SOP	Procedure No.:	GT.6, Rev. 2
	Page:	3B of 18
	Effective Date:	06/01/94
Category 2	Organization:	Environmental Management

- 5.1.3 Submit WIN form and apply for Soil Disturbance Permit fo RFP Construction Management.
- 5.1.4 Receive approved Soil Disturbance Permit.
- 5.1.5 Receive notice from Geosciences Division that well permits have been approved by Division of Water Resources and well installation may proceed.
- 6.0 EQUIPMENT AND PROCEDURES FOR MONITORING WELL AND PIEZOMETER INSTALLATION

Groundwater monitoring wells and open-pipe piezometers (observation wells), other types of piezometers, and inclinometers will be constructed in boreholes drilled and logged according to SOP GT.2, Drilling and Sampling Using Hollow-Stem Auger Techniques, or SOP GT.4, Rotary Drilling and Rock Coring, and SOP GT.1, Logging Alluvial and Bedrock Material. The construction of monitoring wells is the same as that used for piezometers. The distinction between wells and piezometers is based on the intended use. Wells are used for obtaining samples of groundwater while piezometers are intended only for water level measurements. If different types of piezometers are required (e.g., isolated electronic or pneumatic piezometers), they will be addressed in another | SOP or in a project-specific work plan. All drilling

EG&G ROCKY FLATS PLANT	Manual:	5-21000-OPS
EMD MANUAL OPERATION SOP	Procedure No.:	GT.6, Rev. 2
	Page:	4 of 18
	Effective Date:	06/01/94
Category 2	Organization:	Environmental Management

and sampling equipment and materials will be protected from the ground surface with clear plastic sheeting or will be placed on clean drill racks.

Personnel installing monitoring wells need to be cognizant of the many factors influencing the screened intervals selected for wells. For example, water table wells should have screens of sufficient length at the appropriate depth to monitor the water table. Wells with slow recharge should have sufficient screen area to allow adequate sample volume. However, long screened intervals should generally be avoided since they are of limited value for characterizing discrete zones of contamination.

Selection of well screen intervals may also depend on the suspected presence of light or dense immiscible layers of contaminants floating on the water table or residing at the bottom of a hydrostratigraphic unit (HSU). Screened intervals across different HSUs should generally be avoided particularly where there is a potential for cross-contamination between HSUs to occur.

These factors must be addressed during project planning, and the Field Sampling Plan (FSP) will normally provide rationale for the planned sampling. Personnel installing monitoring wells should be familiar with the FSP and the rationale used in determining well screen intervals.

6.1 EQUIPMENT AND MATERIALS

The following is a list of equipment and well materials for well installation:

- Drill rig with appropriately-sized drill bits, augers, and/or rods
- High pressure steamer/sprayer
- Sand bailer
- Long handled bristle brushes
- Wash/rinse tubs

EG&G ROCKY FLATS PLANT EMD MANUAL OPERATION SOP	Manual: Procedure No.: Page:	5-21000-OPS GT.6, Rev. 2 5 of 18
Category 2	Effective Date: Organization:	06/01/94 Environmental Management
• Phosphate free	, lab grade detergent (e.g., L	.iquinox)
Weighted tape	measure	
Water level pro	bbe	
Distilled RFP [potable water	,
Drums for cont	tainment of cuttings, if neces	sary
Appropriate he	alth and safety equipment	
• Field book		
Location map		
Boring log form	n	
Groundwater o	bservation well report	
6.2 DRILLING PROCEDURES		•
~ 11.6 H 211.12		in a mathed conclude of completing th

Boreholes for wells will be drilled by using a drill rig and drilling method capable of completing the well to the depth specified in the FSP. All drilling equipment, including the drill rig, water tanks, and all downhole equipment will be decontaminated according to SOP FO.3, General Equipment Decontamination and SOP FO.4, Heavy Equipment Decontamination. Downhole equipment will be decontaminated between boreholes, and other equipment such as the drill rig will be decontaminated between different work areas in accordance with SOP FO.4 (Heavy Equipment Decontamination upon completion of work in a work area.

Before drilling, test borings/wells will have been located, numbered, and identified by using stakes or paint sticks on paved surfaces. Drilling locations will be cleared for buried metal objects and utility interference according to SOP GT.10, Borehole Clearing. Boreholes will be advanced from the ground surface to a predetermined target depth given in the FSP. Boreholes drilled for wells will be logged stratigraphically by examination of the sample cuttings or core samples according to SOP GT.1, Logging Alluvial and Bedrock Material.

EG&G ROCKY FLATS PLANT EMD MANUAL OPERATION SOP

Manual: Procedure No.: 5-21000-OPS GT.6, Rev. 2

Page:

Effective Date:

9A of 18 06/01/94

Category 2

Organization:

Environmental Management

6.3.1.6 Inclinometer Casing

Inclinometer casing will consist of new, flush-joint acrylonitriles butadiene styrene (ABS) unless another type of casing is required by the FSP or project-specific workplan. The inclinometer casing will extend to approximately 2 feet above the ground surface. The bottom of the casing will be fitted with a slip-in cap that will be glued and riveted in place. The top of the casing will be fitted with a slip-in cap which can be easily removed by hand. All joints in the casing string will be glued and riveted and covered with duct tape in order to support lower sections of casing during installation and to prevent inflow of cement grout. Orientation of the inclinometer casing will be such that the grooves inside the casing will allow for proper placement of the inclinometer probes, i.e., one set of two grooves are parallel to the anticipated direction of movement and one set of two grooves are perpendicular to the anticipated direction of movement.

6.3.1.7 Cement Grout

The annular space between the casing and borehole will be grouted from the bottom of the casing to ground surface. The grout will consist of Portland cement and high-solids reduced pH bentonite grout mixed in a powered mechanical mixer. The grout will be proportioned so that its strength is approximately the same as the surrounding material. Grout will be placed outside of the inclinometer casing using a side discharge tremie pipe located at the bottom of the casing or with a grout cap/plug assembly that allows for pumping of grout through the inclinometer approximately 2 feet below ground surface.

EG&G ROCKY FLATS PLANT
EMD MANUAL OPERATION SOP

Manual:
Procedure No.:

5-21000-OPS GT.6, Rev. 2 15D of 18 06/01/94

Effective Date: Organization:

Page:

Environmental Management

6.3.2.4 Inclinometer Features

Category 2

A protective steel casing with hinged and locking cap and appropriate dimensions will be installed over the inclinometer casing at such a time as to maximize total productivity and minimize the possibility of damage to the casing. The protective casing will have the inclinometer designation welded on the side. The bottom of the casing will be embedded 2 to 3 feet below the ground surface in concrete. The annulus between the inclinometer casing and the protective casing will be filled with concrete to a minimum of 12 inches above the ground surface, and a 1/4-inch diameter hole will be drilled in the protective casing just above the concrete surface to allow for drainage.

At the same time the protective steel casing is concreted in place, an external concrete collar approximately 3 foot square will be placed around the protective casing at the ground surface. The collar will be graded to slope away from the casing in all directions, and will have the inclinometer designation inscribed in it before the concrete sets. If traffic or vegetation conditions warrant extra protection, four 3-inch-diameter steel posts will be installed radially from the inclinometer casing at a distance of approximately 4 feet. The posts will be filled with sand or concrete and embedded in concrete 3 feet below ground surface with a minimum of 3 feet sticking up above ground surface. If the post is filled with sand, the top 3 to 6 inches will be filled with concrete to prohibit water from entering the post.

EG&G ROCKY FLATS PLANT Manual: 5-21000-OPS
EMD MANUAL OPERATION SOP Procedure No.: GT.6, Rev. 2
Page: 15E of 18
Effective Date: 06/01/94
Category 2 Organization: Environmental Management

6.4 WELL POINT INSTALLATION

This Section describes the procedures used for installing well points. Before installation, sites will be located, numbered, and identified using stakes (or paint sticks on paved surfaces). Refer to SOP GT.10, Borehole Clearing, for more information regarding clearing the sites of underground obstructions.

After test sites have been located and cleared, an exclusion zone will be established according to the project Health and Safety Plan. The procedure for installing well points at a specific location is as follows:

- 1. Decontaminate the rig and downhole equipment. See SOP FO.3, General Equipment Decontamination for specific details regarding decontamination.
- 2. Set up the rig to obtain a thrust direction as close to vertical as possible.
- 3. Advance threaded expendable point by either hydraulically pushing or hammering to desired depth.
- 4. At locations within an IHSS, monitor the breathing zone near the rig for volatile organic compounds.
- 5. Insert the end of the hand-perforated tubing (Polyethylene or Teflon) with a threaded stud attached into the probe rods. Thread this into the expendable drive point. Length of perforated tubing will range between one and five feet based upon magnitude of anticipated water level fluctuations.
- 6. Hydraulically withdraw probe rods from hole.

EG&G ROCKY FLAT	S PLANT
EMD MANUAL OPEI	RATION SOP

Manual: Procedure No.: 5-21000-OPS GT.6, Rev. 2 16 of 18 06/01/94

Category 2

Page: Effective Date: Organization:

Environmental Management

- 7. Place 10/20 silica sand filter pack to approximately six inches above the top of the screen while keeping tension on the tubing. Place at least six inches of granular bentonite seal above filter pack.
- 8. Install four-inch long, one-inch diameter PVC casing with threaded or slip cap as protective well-point surface casing. Protective casing will be nearly flush with the ground surface.
- 9. Install four-foot long, three-inch diameter steel post adjacent to protective casing to act as marker and traffic barrier. Post should be installed such that three feet are above ground.
- 10. Develop well point with peristaltic or inertia pump. Since these well points are only for measuring water levels, it is not necessary to measure all the parameters referenced in SOP GW.4, Well Development.
- 11. Survey top protection casing because well-point tubing is too flexible. Refer to SOP GT.17, Land Surveying, for more information regarding site surveying procedures.

7.0 DOCUMENTATION

Provide the WIN form to the Geosciences Division as instructed in 5.1.1. Submit copies of applicable (Sections 5.1.6 and 8.0) records related to this administrative procedure to Geosciences Division.

The installation of monitoring wells and piezometers will be documented on groundwater monitoring well and piezometer report forms. Drilling information will be documented on the Rocky Flats Plant Borehole Log form (Form GT.1A) and on the Hollow Stem Auger Drilling form (Form GT.2A), or on the Rotary/Core Drilling form (Form GT.4A). Besides the drilling and

Page:

GT.6, Rev. 2 18 of 18

Effective Date:

06/01/94 Environmental Management

Category 2

- Organization:
- - Depth of borehole
 - Type and depths of centralizers if used

Diameter of borehole

• Generalized stratigraphy and water level summary (based on rig geologist notes)

8.0 ADMINISTRATIVE DOCUMENTATION

The two forms for documenting well completion data and well installation notification for wells (and piezometers) follow the section. The Well Installation Notification Form GT.6A is completed and submitted to the Geosciences Division. Field information documented on the Groundwater Monitoring Well and Piezometer Report Form GT.6B should be entered in electronic data format as specified in SOP FO.14, Field Data Management Form FO.14G. Upon completion of data entry and quality control check, Form GT.6B is delivered to the Operable Unit Project Manager.